

National Health and Nutrition Examination Survey 1999–2012 Survey Content Brochure













Key
Component or lab test conducted on original sample description.
Change from original sample description.
Component or lab test not conducted.
The Survey Content Brochure is a summary of the available 1999–2012 NHANES data.
==== = ===============================

Table 1. Questionnaire components of the National Health and Nutrition Examination Survey, 1999–2012



Component	Sample description	1999–2000 2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012
SP questionnaire							
Acculturation (ACQ)	12 years and older						
Allergy (AGQ)	1 year and older				"		_
Air quality (AQQ)	16 years and older						
Balance (BAQ)	40 years and older						
Blood pressure and cholesterol (BPQ)	16 years and older						
Cardiovascular disease (CDQ)	40 years and older						
Demographic background (DMQ)	Birth and older						
Dermatology (DEQ)	6 years and older¹				Not	e A	
Diabetes (DIQ)	1 year and older						
Diet behavior and nutrition (DBQ)	Birth and older						
Dietary screener module (DTQ)	2–11 years						
Dietary supplements (DSQ) and medications (RXQ)	Birth and older						
Cognitive functioning (CFQ)	60 years and older						Note B
Early childhood (ECQ)	Birth–15 years						
Health insurance (HIQ)	Birth and older	Note C					
Hearing/audiometry (AUQ)	1 year and older						
Hospital utilization and access to care (HUQ)	Birth and older						
Immunization (IMQ)	Birth and older						
Inf ammatory arthritis pain (ARQ)	20–69 years						
Kidney conditions (KIQ)	20 years and older						
Medical conditions (MCQ)	1 year and older						
Miscellaneous pain (MPQ)	20 years and older						
Occupation (OCQ)	12 years and older1				Not	e D	
Oral Health (OHQ)	2 years and older1			Note	Ε	No	te F
Osteoporosis (OSQ)	20 years and older						
Physical activity and physical f tness (PAQ)	2 years and older						
Physical functioning (PFQ)	1 year and older1					Not	te G
Respiratory health and disease (RDQ)	1 year and older						



Component	Sample description	1999–2000 2001–2002 2003–2004	2005–2006 2007–2008 2009–2010	2011–2012
Sleep disorders (SLQ)	16 years and older	1999-2000 2001-2002 2003-2004	2003-2000 2007-2000 2003-2010	2011-2012
Smoking and tobacco use (SMQ)	20 years and older			
Social support (SSQ)	60 years and older ¹		Note H	
Taste and smell (CSQ)	40 years and older		Note 11	Note I
Tuberculosis (TBQ)	•			Note J
, ,	1 year and older ¹		Note IZ	Note 3
Vision (VIQ)	20 years and older ¹		Note K	
Weight history (WHQ)	16 years and older			
Family questionnaire	5.4			
Demographic background (DMQ)	Birth and older			
Consumer behavior (CBQ)	Birth and older			
Food security (FSQ) ²	Birth and older			
Health insurance (HIQ)	Birth and older		Note L	
Housing characteristics (HOQ)	Birth and older			
Income (INQ)	Birth and older			
Pesticide use (PUQ)	Birth and older		Note M	
Smoking-family (SMQ)	Birth and older			
Mobile Examination Center (MEC) questionnaire				
Audio computer-assisted self-interview (ACASI)	12 years and older			_
Alcohol use (ALQ)	12–19 years¹			Note N
Conduct disorders (CDQ)	12–19 years			
Drug use (DUQ)	12–59 years¹		Note O	
Food security (FSQ)	12–15 years			
Prostate conditions (PSQ)	Males 20 years and older	Note P	Note Q	
Pubertal maturation (PUQ)	8–19 years			
Sexual behavior (SXQ)	14–59 years¹		Note R	
Smoking and tobacco use (SMQ)—Youth	12–19 years			
Computer-assisted personal interview (CAPI)	12 years and older			
Alcohol use (ALQ)	20 years and older ¹			Note E
Bowel health (BHQ)	20 years and older			
20				



Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012
Current health status (HSQ)	12 years and older							
Dietary screener module (DTQ)	12–69 years							
Kidney condition (KIQ)	20 years and older							
Muscle pain/creatine kinase (CKQ)	12 years and older							
Pesticide exposure (PUQ)	8 years and older							
Physical activity (PAQ)	12–15 years							
Prostate conditions (KIQ)	Males 20 years and older							
Reproductive health (RHQ)	Females 12 years and older							
Smoking and tobacco use (SMQ)—Adult	20 years and older							
Urology (KIQ)	20 years and older							
Volatile toxicants (VTQ)	1/3 sample 12 years and older							
Weight history (WHQ)	8–15 years							

¹Except where noted otherwise.

Note B: Moved to MEC questionnaire and expanded.

- Note D: Conducted with SPs ages 16 years and older.
- Note E: Conducted with SPs ages 18 years and older.
- Note F: Conducted with SPs ages 30 years and older from 2009–2010 and one year and older from 2011–2012.
- Note G: Conducted with SPs ages f ve years and older.
- Note H: Conducted with SPs ages 40 years and older.
- Note I: Started in 2012.
- Note J: Conducted with SPs ages six years and older.
- Note K: Conducted with SPs ages 12 years and older.
- Note L: Found in SP questionnaire.
- Note M: Found in MEC interview.
- Note N: Conducted with SPs ages 12-17 years.
- Note O: Conducted with SPs ages 12-69 years.
- Note P: Found in SP questionnaire KIQ component.
- Note Q: Moved to CAPI.
- Note R: Conducted with SPs ages 14-69 years.

²In 2001–2010, adult and child person-level food security data was collected after the dietary recall.

Note A: Conducted with SPs ages 20-59 years.

Note C: Found in family questionnaire.

Table 2. Post exam follow-up questionnaire components of the National Health and Nutrition Examination Survey, 1999–2012



Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012
Flexible consumer behavior (FCBS) phone follow-up module (CBQ)	1 year and older							
Hepatitis C follow-up (HCQ)	SPs with Hep C							
Prostate-specif c antigen (PSA) follow-up	Males 40 years and older with high results ¹				Note A			

¹Except where noted otherwise.

Note A: Conducted with males 40–70 years.

Table 3. Examination components of the National Health and Nutrition Examination Survey, 1999–2012



Component	Sample description	1999–2000	2001–2002 2	2003–2004 2005–	2006 2007–2008 2	009–2010	2011–2012
Arthritis body measures	20–69 years						
Audiometry	1/2 sample 20–69 years1				Note /	4	
Balance	1/2 sample 40–69 years1		Note	В			
Bioelectrical impedance analysis	8–49 years						
Blood pressure	8 years and older						
Body measurements	Birth and older						Note C
Cognitive function	60 years and older						
Cardiovascular (CV) f tness	12–49 years¹			Note	e D		
Dermatology	20-59 years						
Dietary	Birth and older				Note E		
Dietary supplement	Birth and older					Note F	
Dual energy x-ray absorptiometry							
Body composition	8 years and older1	Note G		Note	e H		Note I
Bone density—hip and spine	8 years and older						
Food frequency	2 years and older			Note J		_	
Grip test	6 years and older						
Lower extremity disease							
Peripheral neuropathy	40 years and older						
Peripheral vascular disease	40 years and older						
Mental health	8–39 years						
Attention Def cit Hyperactivity Disorder (ADHD)—Youth	Parent of 8–15 years		Note K				
Anxiety—Youth	8–19 years						
Conduct disorders—Youth	Parent of 8–15 years		Note K				
Depression—Youth	8–19 years		Note K				
Eating disorders—Youth	8–19 years		Note K				
Elimination disorders—Youth	Parent of 8–11 years		Note K				
Panic disorder—Youth	8–19 years						
Depression—Adult	1/2 sample 20–39 years1				Note	L	



Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012
Generalized anxiety—Adult	1/2 sample 20–39 years					<u> </u>		
Panic disorder—Adult	1/2 sample 20–39 years							
Ophthalmology								
Retinal photo	40 years and older							
Visual f elds	40 years and older							
Oral health	2 years and older				Not	e M	Note N	Note O
Physical activity monitor	6 years and older							Note P
Physical functioning								
8 ft. timed walk	50 years and older	Note	K					
20 ft. timed walk	50 years and older							
Isokinetic	50 years and older							
Physician exam	Birth and older							
Respiratory health								
Exhaled nitric oxide	6–79 years							
Spirometry	6–79 years							
Taste and smell	40 years and older							Note Q
Tuberculin skin test	1 year and older1							Note R
Vision	12 years and older							

¹Except where noted otherwise.

Note A: Target ages are varied by year.

Note B: Increased to full sample, 40 years and older.

Note C: Sagittal abdominal diameter was added for SPs eight years and older; skinfolds were dropped in 2011 and added in 2012 for children 3–15 years.

Note D: Conducted with the afternoon/evening SPs.

Note E: In 2002, new interview system implemented; all SPs asked to complete a second recall by phone.

Note F: A second recall by phone.

Note G: Age range for females was 18 years and older.

Note H: Conducted with SPs ages 8-69 years.

Note I: Conducted with SPs ages 8-59 years.

Note J: Collected by mail.

Note K: Started in 2000.

Note L: Ages 12 years and older with full sample using PHQ-9 screener.

Note M: Changed from comprehensive dentist based exam to a simplified oral health screening for SPs five years and older.

Note N: Changed from a simplif ed health screening to a more comprehensive exam done by a dental hygienist.

Note O: Conducted by a dentist and sample is one year and older.

Note P: Ages three years and older in 2012.

Note Q: Started in 2012.

Note R: Conducted with SPs ages six years and older.

Table 4. Laboratory components of the National Health and Nutrition Examination Survey, 1999–2012



Component	Sample description	1999–2000 2001–200	2 2003–2004	2005–2006	2007–2008	2009–2010	2011–201
Acrylamide	3 years and older1				No	te A	
Albumin*	6 years and older					No	te B
Albumin (home urine)							
Apolipoprotein (B)	1/2 sample 12 years and older				No	te C	
Arsenic*	1/3 sample 6 years and older						
Bone alkaline phosphatase	8 years and older ¹		Note D				
BV/trichomonas	Females 14–49 years						
Cadmium	1 year and older						
Caffeine exposure*	6 years and older						
CD4/CD8	18–49 years/HIV+ and controls]		
Celiac disease (TTG-EMA)	6 years and older						
Chemistry panel	12 years and older						
Chlamydia*	14–39 years						
Cholesterol (total)	3 years and older1				No	te A	
High density lipoprotein (HDL)	3 years and older1				No	te A	
Low density lipoprotein (LDL)	Subsample 3 years and older ¹				No	te E	
Complete blood count	1 year and older						
Cotinine	3 years and older						
C-reactive protein (CRP)	3 years and older1		No	te F	Not	te G	
Creatine phosphokinase	12 years and older		"			No	te H
Creatinine*	6 years and older						
Creatinine (home urine)	6 years and older						
Cryptosporidium	6–49 years	Note I					
Cytomegalovirus	1–5 years				_		
Dust allergens	1 year and older						
Environmental phenols	1/3 sample 6 years and older						
Erythrocyte protoporphyrin	1 year and older¹		No	te J			_
Ferritin	1 year and older¹			Not	te K		
Fibrinogen	40 years and older						
Folate (RBC)	3 years and older1				Note F		



Component	Sample description	1999–2000 2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012
Folate (serum)	3 years and older1				Note F		
Follicle stimulating hormone/luteinizing hormone (FSH/LH)	Females 35–60 years						
Fungicides*	1/3 sample 6 years and older1	Note L					
Glucose	12 years and older						
Glycohemoglobin	12 years and older						
Gonorrhea*	14–39 years						
Halogenated phenolic compounds/Environmental pesticides*	1/3 sample 6 years and older1	Note L					
Helicobacter pylori	3 years and older	Note I					
Hepatitis antiHBs	2–5 years						
Hepatitis A, B, C, D	6 years and older				Not	е М	
Herbicides: substituted ureas and others	1/3 sample 6 years and older1	Note L					
Herpes 1 and 2 antibody	14–49 years						
HLA-B27 (inf ammatory arthritis)	20–69 years				_	Note N	
Homocysteine	3 years and older1			Note O			
Human immunodef ciency virus (HIV) antibody	18–49 years					No	te P
Human papillomavirus (HPV) (oral rinse)	14–69 years						
Human papillomavirus (HPV) (serum)	14–59 years			Not	te Q		
Human papillomavirus (HPV) (swab)	Females 14-59 years			Not	te Q		
Hydroxylated polychlorinated biphenyls	1/3 sample 12 years and older						
Immunoglobulin E-allergens	1 year and older						
Insulin/C-peptide	Subsample 12 years and older				Not	te R	
lodine*	1/3 sample 6 years and older1	Note S			Note S		
Iron	1 year and older		Not	te T		*	
Latex	12–59 years	Note I					
Lead	1 year and older						
Lead dust	Households with 1-5 years						
Lp(a) (Lipoprotein(a))	Subsample 12 years and older			Note U			_
Measles/varicella/rubella	6–49 years					Note V	



Component	Sample description	1999–2000 2001–2002	2003–2004 2005–2006 2007–2008 2009–2010 2011–201
Mercury	1–5 years, females 16–49 years¹		Note F
Mercury (hair)	1-5 years, females 16-49 years	Note I	
Mercury*	Females 16–49 years1		Note W
Metals*	1/3 sample 6 years and older		
Methicillin resistant staphlococcus aureus (MRSA)	1 year and older		
Methylmalonic acid	3 years and older1		Note O
NAL*	6 years and older		
Non-dioxin-like polychlorinated biphenyls	1/3 sample 12 years and older		
N-teleopeptide* (NTX)	8 years and older		
Oral glucose tolerance (OGTT)	Subsample 12 years and older		Note C
Organophosphate insecticides*	1/3 sample 6 years and older1	Note L	
Osmolality*	6 years and older		
Parathyroid hormone	6 years and older		
Perchlorate/thiocynate/nitrates*	6 years and older ¹		Note X
Perchlorate (water)	1/2 sample 12 years and older		
Pesticides*			
Organochlorine*	1/3 sample 12 years and older		
Other*	1/3 sample 6 years and older1	Note L	
Pyrethroid*	1/3 sample 6 years and older1	Note Y	
Phlalates	1/3 sample 6 years and older		
Phytoestrogens*	1/3 sample 6 years and older		
Polyaromatic hydrocarbons* (PAH)	1/3 sample 6 years and older		
Polybrominated diphenyl ethers	1/3 sample 12 years and older		
Polychlorinated and polybrominated dibenzo- p-dioxins, dibenzo-furans, coplanar and mono- ortho-substituted biphenyls	1/3 sample 12 years and older		
Polyf uorinated compounds	1/3 sample 12 years and older1	Note Z	
Polyunsaturated fatty acids	3–11 years, a.m. SPs 12 years and older		Note AA
Prostate specif c antigen (PSA)	Males 40 years and older		



Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012
Selenium/copper/zinc	3–11 years¹	Note	e BB	Note	Note CC			Note DD
Surplus sera	6 years and older					Note EE		
Syphillis	18–49 years							
Testosterone	6 years and older			-				
Thyroid function testing	1/3 sample 12 years and older1					Note FF		
Total iron binding capacity (TIBC)/transferrin saturation	1 year and older ¹			Not	te T			
Toxaphenes	1/3 sample 12 years and older							
Toxoplasma	6–49 years	Note Z						
Trans fatty acids	3–11 years, a.m. SPs 12 years and older							
Transferrin receptor	1–5 years, females 12–49 years							
Triglycerides	Subsample 3 years and older1					Not	te E	
Tuberculosis	6 years and older							
Urine f ow rate calculation*	6 years and older							
Vitamin A/E/carotenoids	3 years and older1			No	te A			_
Vitamin B6	1 year and older							
Vitamin B12	3 years and older ¹			Not	te F			Note O
Vitamin C	6 years and older							
Vitamin D	6 years and older ¹				Note GG			
Volatile organic compounds (VOC)	Subsample 20–59 years ¹					Note	e HH	
Volatile organic compounds (VOC) exposure monitor	Subsample 20–59 years	No	te I					
Volatile organic compounds (VOC) (water)	Subsample 20–59 years¹					Note HH		1
White blood count/deoxyribonucleic acid (WBC/DNA)	20 years and older							

¹Except where noted otherwise.

*Urine

Note A: Conducted on SPs ages six years and older.

Note B: Second specimen is collected in home.

Note C: A.M. SPs only.

Note D: Conducted on SPs ages 8-49 years.

Note E: Conducted on SPs ages 12 years and older; A.M. SPs only.

Note F: Conducted on SPs ages one year and older.

Note G: Conducted on SPs ages three years and older.

Note H: Started in 2010.

Note I: Ended in 2001.

Note J: Conducted on SPs ages 3-5 years and females 12-49 years.



Note K: Conducted on SPs ages 1-5 years and females 12-49 years.

Note L: In 1999, subsample was one-fourth of those aged 12–59 years; in 1999–2002, subsample was one-half of those aged 6–11 years.

Note M: Age range changed to 6–19 years for hepatitis A only.

Note N: Conducted in 2009 only.

Note O: Conducted on SPs ages 20 years and older.

Note P: Conducted on SPs ages 18-59 years.

Note Q: Began in 2002.

Note R: Insulin only.

Note S: Began in 2000; was a full sample in 2007–2008 only.

Note T: Age range changed to 3-5 years and females 12-59 years.

Note U: Conducted in 2005 only.

Note V: Mumps added.

Note W: Conducted on a 1/3 sample of SPs ages six years and older.

Note X: Analyzed retrospectively from surplus sera, 2001–2004; in 2005–2012, subsample was one-third of those six years and older.

Note Y: In 2001–2002, subsample was one-half of those aged 6–11 years.

Note Z: Analyzed retrospectively from surplus sera, 1999–2000.

Note AA: Analyzed retrospectively from surplus sera, 2003–2006.

Note BB: Selenium ended in 2001.

Note CC: In 2003–2004, selenium was conducted on SPs ages 40 years and older.

Note DD: Copper and zinc added.

Note EE: Reduced number of vials.

Note FF: In 2007–2008, full sample.

Note GG: Vitamin D began in 2000; in 2003-2012, vitamin D was conducted on SPs ages one year and older.

Note HH: Conducted on a 1/2 sample of SPs ages 12 years and older.

Appendix. Acronyms and abbreviations used in the National Health and Nutrition Examination Survey



ACASI	Audio computer-assisted self-interview
ADHD	Attention def cit hyperactivity disorder
BV	Bacterial vaginosis
CAPI	Computer-assisted personal interview
CD4	T lymphocyte helper cells
CDISC	National Institute of Mental Health's Computerized Diagnostic Interview Schedule for Children
CIDI	World Health Organization's Composite International Diagnostic Interview
CRP	C-reactive protein
CV f tness	Cardiovascular f tness
FCBS	Flexible Consumer Behavior Survey module
FSH/LH	Follicle stimulating hormone/luteinizing hormone
HDL	High density lipoprotein
HIV	Human immunodef ciency virus
HLA-B27	Human leukocyte antigen B27
HPV	Human papillomavirus
LDL	Low density lipoprotein
Lp(a)	Lipoprotein (a)
MEC	Mobile examination center
MRSA	Methicillin resistant staphlococcus aureus
NTX	N-telopeptides of bone type I collagen
OGTT	Oral glucose tolerance test
PAH	Polyaromatic hydrocarbons
PSA	Prostate specif c antigen
PTH	Parathyroid hormone
RBC	Red blood cell
SP	Survey participant
TH	Thyroxin
TIBC	Total iron binding capacity
TSH	Thyroid stimulating hormone
TTG-EMA	Anti-transglutaminase (tTG) and anti-endomysium (EMA) antibodies
VOC	Volatile organic compounds
WBC/DNA	White blood cells/deoxyribonucleic acid

NHANES tutorial website: http://www.cdc.gov/nchs/tutorials/

Continuous NHANES

Everything you want and need to know about analyzing continuous (1999 and later) NHANES data is now available in a web-based product. The Continuous NHANES Tutorial is designed to help users navigate through the dataset. Users can browse through different modules to gain insight into NHANES data.

Special Topics

NHANES Dietary Tutorial

This tutorial walks you through the steps of conducting an analytical project from beginning to end, with examples of many common analytic procedures. Relevant dietary data information and nuances, tips, and explanations for SAS or SUDAAN programs; downloadable sample program code; and analytical guidance are organized and integrated into different modules and tasks to facilitate this learning process.

NHANES Environmental Chemical Data Tutorial

This tutorial will orient you to Continuous NHANES environmental chemical data, guide you through preparing an environmental chemical analytic dataset, and explain the critical issues for the analysis of environmental chemical data. Users already familiar with Continuous NHANES data and interested in using NHANES environmental chemical data should use this tutorial. New users of NHANES data should complete the Continuous NHANES tutorial before beginning this tutorial.

Other special topics coming soon . . .

- Physical Activity and Cardiovascular Fitness
- Linked data with Centers for Medicare and Medicaid Services